This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

Model PM300-E Food and Beverage Industry



Features

- Measuring ranges from 1bar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

PM300-E is made from high-quality silicon piezoresistive chip. All process connections of the fush pressure transmitter are made of stainless steel, fully welded and isolate the process medium from the pressure measuring instrument via a positive seal. The PM300-E is precision engineered to fit food, pharmaceutical and chemical liquid pressure measurement.

A wide range of process connection and electrical connection options are available to meet almost requirement.

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
01bar	•		•
01.6bar	•		•
02.5bar	•		•
04bar	•		•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	

Other pressure ranges available. Please consult the factory.

Applications

- Process control systems
- Food and beverage
- Medical
- Papermaking

Flush Diaphragm Pressure Transmitter

Performance Specifications

Parameter	Value			Units	Notes			
General								
Pressure Range	0-1,,600			bar	1bar=14.5psi			
Overpressure	1.5xFS			bar				
Environmental								
Operating Temperature Range	-20 to +85(sta	andard), 20 to -	+100	°C	-4°F to 18	-4°F to 185°F		
Compensated Temperature Range	-10 to +70			°C	14°F to 158°F			
Storage Temperature Range	-40 to +125			°C	-40°F to 257°F			
Vibration	10			g	20 to 2000Hz			
Shock	100			g	10ms			
Cycles	10x10 ⁵			cycles				
Electrical @25°C(77°F)								
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.	5Vdc(ratiometric		
Power Supply(Vs)	1236Vdc 1236Vdc 1536Vdc 5Vdc							
Load Resistance	$<$ (Vs-12)/0.02A (For current output), $>$ 10k Ω (For voltage output)							
Insulation Resistance	100MΩ@50Vdc							
Physical Specifications								
Media Compatibility	All media compatible with 316L stainless steel							
Housing	304 stainless steel							
Diaphragm	316L stainless steel							
Seal Ring	Viton or NBR							
Oil Filling	Silicone oil							
Protection	IP65(Standard)							
Net Weight	Approx.285g							
Parameter	Minimum	Typical	Maxim	um Uni	ts	Notes		
Performance								
Accuracy	0.1	0.25	0.5	%FS	50	1,2		
Temp Coeff - Zero		±1.5	±2	%FS	50	3		
Temp Coeff - Span		±1.5	±2	%FS	50	3		
Long-Term Stability		±0.2	±0.3	%FS	O/year	1		

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -10°C to 70° C(14° F to 158° F) with reference to 25° C(77° F).

The listed specifications and dimensions are subject to change without prior notice.

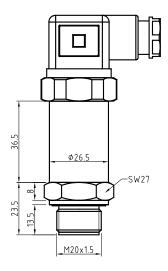
Connection Diagrams

Connector DIN43650							
		2-wire(current)	3-wire(voltage)				
	Supply+	1	1				
	Signal+	2	3				
	Gnd	-	2				

Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

Flush Diaphragm Pressure Transmitter

Dimensions (in mm)



Ordering Information

Option1:										
РМ300-Е			phragm Pressure Transmitter							
			ure Rang	ges						
	0010	01ba				025bar				
	0016	01.6				040bar				
	0025	02.5				060bar				
	0040	04ba				0100bar				
	0060	06ba			Cxxx	Customize	ed range			
	0100	010k								
	0160	016b								
		Option	13: Press	ure Type						
		G	gauge							
		Α	absolu							
		S		gauge n4: Output Signal 420mA 05Vdc 15Vdc						
			42							
			05							
			15							
			10		010Vdc					
			45	0.54.5(ratiometric)						
				Option5: Accuracy						
				02	0.25%					
				05	05 0.5%FSO					
							ical Connection			
					D					
					_	C Cable outlet with PVC-cable, length=1.5m M 12x1, 4-pin				
					M					
					-					
					Option7: Mechanical Connection					
						M2	M20x1.5(male)	N2	1/2NPT(male)	
						G2	G1/2(male)	P2	PT1/2(male)	
						G10	G1(male)	Nx	Customized	
РМ300-Е	0010	G	42	02	D	G2	Examples of Order	ing Cod	e: PM300-E-0010-G-42-02-D-G2	